## TYPES OF REACTIONS

Name:	Examples:
<b>Decomposition reaction</b>	$2KCIO_3 \rightarrow 2KCI + 3O_2$
	$2H_2O_2 \rightarrow 2H_2O + O_2$

Combination or synthesis reaction	$2H_2 + O_2 \rightarrow 2H_2O$
	2Na + Cl <sub>2</sub> → 2NaCl

Single replacement reaction	$Zn + HCI \rightarrow H_2 + ZnCI_2$
	$Mg + H_2O \rightarrow H_2 + MgO$

Double replacement reaction	NaCl + AgNO <sub>3</sub> → NaNO <sub>3</sub> + AgCl↓
	$Mg(OH)_2 + 2HBr \rightarrow 2H_2O + MgBr_2$

Combustion reaction	$CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O$
	$2C_3H_6 + 9O_2 \rightarrow 6CO_2 + 6H_2O$
	$C_4H_{10}O + 6O_2 \rightarrow 4CO_2 + 5H_2O$

1. Describe each of these name reactions in terms of the reactants and products. Notice how many reactants and products there are. Notice what *kind* of reactant/product (element or compound) is shown in each equation.

Name:	Description of reactions
Decomposition reaction	•
Combination or synthesis	
reaction	
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Single replacement reaction	
Double replacement reaction	
Combustion reaction	